Performance Data Sheet

AVD5545EXG

General Information

Model	AVD5545EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12800	10800					
	Watts	1580	1650					
	Amps	3.13	3.18					
	Lb/h	166	144					
-10	Btu/h	15700	13500	11600				
	Watts	1760	1830	1890				
	Amps	3.27	3.32	3.37				
	Lb/h	201	179	160				
-5	Btu/h	18700	16400	14300	12500			
	Watts	1930	2010	2070	2110			
	Amps	3.41	3.48	3.53	3.57			
	Lb/h	239	216	197	179			
0	Btu/h	22000	19500	17300	15300	13400		
	Watts	2080	2170	2250	2300	2330		
	Amps	3.55	3.63	3.71	3.76	3.79		
	Lb/h	278	255	235	217	200		
5	Btu/h	25500	22900	20500	18300	16200		
	Watts	2220	2330	2420	2490	2540		
	Amps	3.69	3.79	3.88	3.95	4.01		
	Lb/h	321	297	276	257	239		
10	Btu/h	29300	26500	23900	21500	19200	17000	14900
	Watts	2340	2470	2580	2670	2740	2770	2760
	Amps	3.82	3.94	4.05	4.14	4.22	4.28	4.30
	Lb/h	366	342	321	301	281	262	243
15	Btu/h	33400	30400	27600	25000	22500	20100	17700
	Watts	2440	2590	2730	2840	2930	2980	3000
	Amps	3.95	4.08	4.21	4.33	4.44	4.52	4.57
	Lb/h	414	390	368	347	327	307	286
20	Btu/h	37800	34600	31600	28700	26000	23400	20800
	Watts	2520	2700	2860	3000	3110	3200	3240
	Amps	4.06	4.21	4.37	4.51	4.65	4.76	4.84
	Lb/h	466	442	419	397	376	355	332

25	Btu/h	42600	39200	35900	32800	29800	26900	24100
	Watts	2570	2780	2970	3140	3280	3400	3470
	Amps	4.15	4.33	4.51	4.69	4.85	4.99	5.11
	Lb/h	522	497	474	451	429	407	383
30	Btu/h	47800	44100	40600	37300	34000	30900	27700
	Watts	2590	2840	3060	3260	3440	3590	3700
	Amps	4.23	4.43	4.64	4.84	5.04	5.22	5.38
	Lb/h	582	557	532	509	486	463	438
35	Btu/h	53400	49500	45700	42100	38600	35100	31700
	Watts	2590	2870	3130	3370	3580	3760	3910
	Amps	4.28	4.51	4.75	4.98	5.21	5.43	5.63
	Lb/h	647	621	596	572	548	523	497
40	Btu/h	59500	55300	51200	47300	43500	39800	36000
	Watts	2550	2870	3170	3450	3700	3920	4110
	Amps	4.30	4.56	4.83	5.10	5.37	5.62	5.86
	Lb/h	716	689	664	639	614	588	560
45	Btu/h	66100	61500	57200	53000	48900	44800	40700
	Watts	2470	2840	3180	3500	3800	4060	4290
	Amps	4.30	4.59	4.89	5.20	5.50	5.80	6.08
	Lb/h	790	763	737	711	685	658	629
50	Btu/h	73100	68300	63700	59100	54700	50300	45900
	Watts	2360	2770	3160	3530	3870	4180	4450
	Amps	4.26	4.59	4.92	5.27	5.61	5.95	6.28
	Lb/h	870	842	816	789	762	734	703
55	Btu/h	80700	75600	70600	65800	61000	56200	51500
	Watts	2210	2670	3100	3520	3910	4270	4600
	Amps	4.19	4.55	4.92	5.31	5.70	6.08	6.45
	Lb/h	955	927	900	872	844	815	783

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.563876E+04	1.152764E+03	3.166190E+00	6.486105E+02
C2	8.723966E+02	5.804851E+00	2.282667E-02	7.715661E+00
C3	-6.239023E+02	8.255713E+00	-5.416381E-03	-7.621347E+00
C4	7.291644E+00	-8.213973E-01	-3.892719E-04	5.363495E-02
C5	-1.792696E+00	2.869813E-01	-1.192306E-04	1.920074E-02
C6	3.103296E+00	9.841628E-02	2.061100E-04	4.755867E-02
C7	3.917898E-02	-3.420143E-03	-4.433278E-06	4.066208E-04
C8	-2.923776E-02	6.519336E-03	4.088112E-06	-1.247677E-05
C9	-8.215018E-03	6.866724E-05	2.357242E-06	-1.663555E-04
C10	-6.981854E-03	-7.113099E-04	-9.793538E-07	-1.268876E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature